		PART D: J.P.Park Cabling and Panel Board Work				
		a) Incoming Panel and Utility panel				
1	1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE 6.13.9) 250Amps 35kA.	Each	16327.00	Rupees Sixteen Thousand Three Hundred and Twenty Seven Only	16327.00
	18	6.13.B.7) 125-160Amps 25kA.	Each	7362.00	Rupees Seven Thousand Three Hundred and Sixty Two Only	132516.00
2	1	Supplying and fixing of Shunt trip suitable for MCCB.CBCT.	Each	1486.00	Rupees One Thousand Four Hundred and Eighty Six Only	1486.00
3	15	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.1) 5-32Amps SP	Each	418.00	Rupees Four Hundred and Eighteen Only	6270.00
	15	6.16.3) 5-32 Amps DP	Each	849.00	Rupees Eight Hundred and Forty Nine Only	12735.00
	30	6.16.6) 40-63Amps TPN	Each	1936.00	Rupees One Thousand Nine Hundred and Thirty Six Only	58080.00
4	18	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.	Each	442.00	Rupees Four Hundred and Forty Two Only	7956.00
5	1	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.	Each	390.00	Rupees Three Hundred and Ninety Only	390.00
6	1	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.	Each	140.00	Rupees One Hundred and Forty Only	140.00
7	1	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT	Each	415.00	Rupees Four Hundred and Fifteen Only	415.00
8	2	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	Each	172.00	Rupees One Hundred and Seventy Two Only	344.00
9	18	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound.	Each	483.00	Rupees Four Hundred and Eighty Three Only	8694.00
10	1	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board.	Each	7998.00	Rupees Seven Thousand Nine Hundred and Ninety Eight Only	7998.00
11	30	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.1) 100Amps 4x30x6mm Aluminum Strips	mtr	2135.00	Rupees Two Thousand One Hundred and Thirty Five Only	64050.00
	16	6.38.2) 250Amps 4x30x10mm Aluminum Strips	mtr	2942.00	Rupees Two Thousand Nine Hundred and Forty Two Only	47072.00

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12	1262986	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 6.40.1) 14SWG	Sqcms	0.37	Rupees Zero Only Paise Thirty Seven Only	467304.82
13	200	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.1) 40x40x6mm	mtr	263.00	Rupees Two Hundred and Sixty Three Only	52600.00
14	30	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.3) 63Amps	Each	234.00	Rupees Two Hundred and Thirty Four Only	7020.00
	45	6.7.4) 100Amps	Each	360.00	Rupees Three Hundred and Sixty Only	16200.00
15	15	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.,Group 'A'	Each	4200.00	Rupees Four Thousand Two Hundred Only	63000.00
16	15	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 6.12.3) -60-70Amps	Each	4774.00	Rupees Four Thousand Seven Hundred and Seventy Four Only	71610.00
17	250	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.1.3.1)19/20mm dia 2mm thick	mtr	56.00	Rupees Fifty Six Only	14000.00
	130	1.3.2) 25mm dia 2mm thick	mtr	58.00	Rupees Fifty Eight Only	7540.00
	250	1.3.4) 40mm dia 2.5mm thick	mtr	101.00	Rupees One Hundred and One Only	25250.00
18	2500	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 2.5.3) 2.5 sqmm	Per Mtr.	29.20	Rupees Twenty Nine Only Paise Nineteen Only	73000.00
	650	2.5.4) 4 sqmm	Per Mtr.	42.10	Rupees Forty Two Only Paise Ten Only	27365.00
	500	2.5.5) 6sqmm	Per Mtr.	63.80	Rupees Sixty Three Only Paise Seventy Nine Only	31900.00
19	400	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 7.4.2) 4 core 10 sqmm	mtr	118.80	Rupees One Hundred and Eighteen Only Paise Eighty Only	47520.00
	3000	7.4.4) 4 core 16 sqmm	mtr	140.40	Rupees One Hundred and Forty Only Paise Forty Only	421200.00
	1000	7.4.5) 3.5 core 25 sqmm	mtr	165.60	Rupees One Hundred and Sixty Five Only Paise sixty Only	165600.00
	900	7.4.6) 3.5 core 35 sqmm	mtr	204.00	Rupees Two Hundred and Four Only	183600.00
	950	7.4.7) 3.5 core 50 sqmm	mtr	265.00	Rupees Two Hundred and Sixty Five Only	251750.00
	425	7.4.12) 3.5 core 185 sqmm	mtr	816.00	Rupees Eight Hundred and Sixteen Only	346800.00

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20	3400	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 7.8.1) 6 sqmm to 16 sqmm	mtr	10.80	Rupees Ten Only Paise Eighty Only	36720.00
	2850	7.8.7) 25 sqmm to 75 sqmm	mtr	34.80	Rupees Thirty Four Only Paise eighty Only	99180.00
	425	7.8.A.4)185sqmm to 240Sqmm	mtr	27.00	Rupees Twenty Seven Only	11475.00
21	4500	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.1) In soil (ordinary)	mtr	78.00	Rupees Seventy Eight Only	351000.00
	1500	7.9.2) In soil (Hard soil)	mtr	106.00	Rupees One Hundred and Six Only	159000.00
	500	7.9.5 C.C. cutting	mtr	212.00	Rupees Two Hundred and Twelve Only	106000.00
22	40	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 7.14.2) 25mm dia	Each	86.00	Rupees Eighty Six Only	3440.00
	10	7.14.3) 32mm dia	Each	122.00	Rupees One Hundred and Twenty Two Only	1220.00
	10	7.14.5) 50mm dia	Each	264.00	Rupees Two Hundred and Sixty Four Only	2640.00
23	790	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.7.21.5)10 sqmm	Each	7.65	Rupees Seven Only Paise Sixty Five Only	6043.50
	333	7.21.6)16 sqmm	Each	11.31	Rupees Eleven Only Paise Thirty One Only	3766.23
	140	7.21.7) 25 sqmm Long Barrel	Each	20.59	Rupees Twenty Only Paise Fifty Eight Only	2882.60
	36	7.21.8) 35 sqmm Long Barrel	Each	35.72	Rupees Thirty Five Only Paise Seventy two Only	1285.92
	100	7.21.9) 50 sqmm Long Barrel	Each	62.40	Rupees Sixty Two Only Paise forty Only	6240.00
	16	7.21.14) 185 sqmm Long Barrel	Each	338.52	Rupees Three Hundred and Thirty Eight Only Paise Fifty two Only	5416.32
24	24	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp.	Each	952.00	Rupees Nine Hundred and Fifty Two Only	22848.00
25	353	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets. a) 200mmx200mmx98mm	each	925.00	Rupees Nine Hundred and Twenty Five Only	326525.00
26	20	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No	2727.00	Rupees Two Thousand Seven Hundred and Twenty Seven Only	54540.00

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27	200	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip 7.3.1)-25x3mm	Mtr	77.00	Rupees Seventy Seven Only	15400.00
28	100	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables. 7.20.1)-40mm OD / 32mm ID	Mtr	98.00	Rupees Ninety Eight Only	9800.00
29	300	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole.16.28.1) Upto 5Mtr street light pole.	No	500.00	Rupees Five Hundred Only	150000.00
	50	16.28.2) Above 5.5 to 7.5Mtr street light pole.	No	620.00	Rupees Six Hundred and Twenty Only	31000.00
		High Mast and its accessories				
30	22	Supplying High pressure ..... Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923- performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250Volts 50Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass, prewired to terminal block. 4.18.5)--2x400Watts	Each	22800.00	Rupees Twenty Two Thousand Eight Hundred Only	501600.00
31 35/5.1 4.6	3	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. 8 meters - Top 70mm and bottom 135mm dia	each	13932	Rupees Thirteen Thousand Nine Hundred and Thirty Two Only	41796.00
32	3	Fabrication, Supplying, Erection, Testing and Commissioning of .....Mtrs long polygon high mast with Single / Multiple telescopic sections having, (minimum overlap distance of 1.5 times of top section) thickness as per BSEN 10025 grade S 355 JO /ASTM A572-50 steel sheet plate for shaft suitable to withstand a wind velocity of 47 m/sec as per IS 875 part 3(as per GA Drawing).Base plate as per IS 2062/ASTM A572-50. The mast shall be Galvanized in single Hot-dip as per BSEN ISO 1461/ASTM A123 with an average 70 microns as per IS 2629, and welded as per BS 5135 Single L-Seam joint. The mast shall have 2way head frame with die cast LM-6 pulleys, stainless steel axle, Phosphorus Bronze bearing bush press-fitted with separate guides for 2 runs of 5mm dia, stainless steel wire rope of AISI 304grade 7/19-core, (Factor of Safety as per TR no-7). 2.5sqmm EPR insulated PCP sheathed trailing power cable housed inside the bottom shaft of mast with door having locking arrangement. The mast shall have power tool operating on 230/ 415V, 50Hz, 1/3 phases reversible geared motor. The mast shall have lantern of 2 segments, suitable dia with max load carrying capacity as per IS 1239. The mast shall be erected on existing RCC footing. The mast shall be supplied with 3mm thick template, lightning arrester of 1.2m length galvanized pipe with top arrow fitted	Each	120000.00	Rupees One Lakh Twenty Thousand Only	360000.00

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33	48	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (Item No. - 2.4, Page No. 5)	Cum	283.02	Rupees Two Hundred and Eighty Three Only Paise two Only	13584.96
34	30	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with iead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (Item No. - 2.10, Page No. 6)	Cum	127.20	Rupees One Hundred and Twenty Seven Only Paise Twenty Only	3816.00
35	9.0	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS (Item No. - 2.15, Page No. 6)	Cum	2133.78	Rupees Two Thousand One Hundred and Thirty Three Only Paise Seventy Eight Only	19204.02
36	3.48	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Item No. - 4.3, Page No. 12)	Cum	4976.70	Rupees Four Thousand Nine Hundred and Seventy Six Only Paise seventy Only	17318.92
37	13.14	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Item No. - 4.5, Page No. 12)	Cum	5880.88	Rupees Five Thousand Eight Hundred and Eighty Only Paise Eighty Eight Only	77274.76
38	30.24	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Item No. - 4.28, Page No. 15)	Sqm	239.56	Rupees Two Hundred and Thirty Nine Only Paise Fifty Six Only	7244.29
39	5.94	KSRB 4.9.1 : Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Item No. - 4.45, Page No. 17)	q	6368.48	Rupees Six Thousand Three Hundred and Sixty Eight Only Paise Forty eight Only	37828.77
40	14.7	KSRB 15.3.1 Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Item No. - 15.9, Page No. 109)	Sqm	181.26	Rupees One Hundred and Eighty One Only Paise Twenty six Only	2664.52
		Total				**18267163.47**

Rupees One Crore Eighty Two Lakh Sixty Seven Thousand One Hundred and Sixty Three Only Paise Forty Six Only

I agree to take up this work at rates as mentioned in the Schedule-B /(BOQ) in Addition to KRIDL Charges @ 8% AND Labour cess @1%

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